

FIG. 28A PRIOR ART

Regarding Rev/Ver of Property

| Concept model | i Data model | Add | Change | Delete |
|-------------------------------|--|--------|----------|--------|
| Code | Property_BSU.code | — | X | X |
| Definition Class | Property_BSU.name_scope | X | X | X |
| Data_type | Property_DET.domain | — | V(※8) | X |
| Preferred Name | item_name.name | — | R | X |
| Short Name | item_name.Short_name | — | R | X |
| Preferred Letter Symbol | Property_DET.preferred_symbol | R | R | X |
| Synonymous Letter Symbol | Property_DET.synonymous_symbols | R | R | R |
| Synonymous Name | item_name.Synonymous_names | R | R | R |
| Property_Type Classification | Property_DET.DET_classification | — | R(※9) | X |
| Definition | Property_DET.definition | — | R/V(※10) | X |
| Source Document of definition | identified_document.document_identifier | R(※11) | R(※11) | R |
| Note | Property_DET.note | R(※11) | R(※11) | R |
| Remark | Property_DET.remark | R(※11) | R(※11) | R |
| Unit | int/real_measure_type.unit.structured_representation | — | X | X |
| Condition | Property_DET.depends_on | X | X/R(※12) | X |
| Formula | Property_DET.formula | R(※11) | R(※11) | R(※11) |
| Format | Property_DET.domain.simple_type.value_format | — | V | X |
| Date of Original Definition | dates.date_of_original_definition | — | X | X |
| Date of current version | dates.date_of_current_version | — | V | X |
| Date of current revision | dates.date_of_current_revision | — | R/V | X |
| Version number | Property_BSU.version | — | V | X |
| Revision number | Property_DET.revision | — | R | X |

※8 Change of Data_type itself not allowed. Possible are:

1. Addition of option of enumeration type data
2. Change of Version of class constituting attribute range(ex:is_part_of relationship)
3. Change of Version of Data_type BSU

※9 Only in case of Rev change of ISO31 or ISO13584.

※10 Change of definition that affects Property is not allowed. But processing for evaluating value of this Property may be Changed. Ver change in such case, or Rev change otherwise.

※11 Change of definition that affects Property is not allowed.

※12 Change of Condition_DET is not allowed. Version change of Condition_DET will propagate to Depend_P_DET.



FIG. 28B PRIOR ART

Regarding Rev/Ver of Class

| Concept model | i Data model | Add | Change | Delete |
|-------------------------------|---|--------|----------|--------|
| Code | Class_BSU.code | — | X | X |
| Super Class | Class.its_superclass | V(※15) | V(※12) | V(※12) |
| Preferred Name | item_name.name | — | R | X |
| Short Name | item_name.Short_name | V | V(※16) | X |
| Visible Type | Class_BSU.added_visible_data_type | V | V(※16) | X |
| Applicable Type | Class.defined_types | V | V(※16) | X |
| Sub-class selection Property | class.sub_class_properties | R | R | R |
| Synonymous Name | item_name.Synonymous_names | V | V(※16) | X |
| Visible Property | Class_BSU.added_visible_property | V | V(※16) | X |
| Applicable Property | Described_by | V | V(※16) | X |
| Class Value assignment | Class.class_constant_values | — | R/V(※17) | X |
| Definition | Property_DET.definition | R | R | R |
| Source Document of definition | identified_document.document_identifier | R | R | R |
| Note | Property_DET.note | R | R | R |
| Remark | Property_DET.remark | — | R | R |
| Simplified Drawing | Class.simplified_drawing | — | X | X |
| Date of Original Definition | dates.date_of_original_definition | — | V | X |
| Date of current version | dates.date_of_current_version | — | R/V | X |
| Date of current revision | dates.date_of_current_revision | — | V | X |
| Version number | Property_BSU.version | — | R | X |
| Revision number | Property_BSU.revision | — | R | X |

※13 Value can only be added.

※14 Change of arbitrary element of Dependent_P_DET Set.

※15 Property/Data_type of inherited Visible/Applicable Should not be deleted by change of Super Class. This occurs when (1) new Version is created by Sub-Class, or(2) intermediate class is inserted.

※16 Change is only addition of new Item or change of Version of Item to be referred.

※17 Change of definition that affects Property is not allowed.

Propagation of change of Class V/R

- Version change of parent class → Version charge of all children classes (grand children classes)
- Version change of Table or contents that refer to class → Version change of that class

